

Docket No. H4494 PCT/US
PCT/EP00/08924

On a separate page, after page 23, please insert the enclosed Abstract of the Disclosure.

In the Claims

Please cancel Claims 1 to 12, without prejudice.

Please add the following new claims:

- 13. (NEW) A process for restructuring keratin fibers comprising applying to keratin fibers
- (a) at least one enzyme having transglutaminase activity; and
 - (b) at least one active substance having substrate activity for the enzyme.

14. (NEW) The process of claim 13 wherein the enzyme having transglutaminase activity comprises a calcium-independent transglutaminase.

15. (NEW) The process of claim 13 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate, or combinations thereof.

16. (NEW) The process of claim 13 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

17. (NEW) The process of claim 16 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

18. (NEW) The process of claim 13 wherein the active substance having substrate activity comprises a substance synthetically functionalized with an H₂N-R group or an H₂N-(CO)-R' group, wherein R and R' represent an unbranched C₁₋₈ alkylene group.

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19. (NEW) The process of claim 18 wherein the synthetically functionalized substance has at least one $\text{H}_2\text{N}-(\text{CH}_2)_4$ group.

20. (NEW) The process of claim 18 wherein the synthetically functionalized substance has at least one $\text{H}_2\text{N}-(\text{CO})-\text{CH}_2-\text{CH}_2$ group.

AM 21. (NEW) The process of claim 13 wherein the enzyme having transglutaminase activity and the active substance having substrate activity are applied simultaneously to the keratin fibers.

22. (NEW) The process of claim 13 wherein the enzyme having transglutaminase activity, and the active substance having substrate activity are applied successively in any order.

23. (NEW) The process of claim 13 wherein the enzyme having transglutaminase activity is contacted with the keratin fibers for a contact time of 3 minutes to 120 minutes.

24. (NEW) A process for setting keratin fibers comprising
(a) applying to keratin fibers at least one enzyme having transglutaminase activity and at least one active substance having substrate activity for the enzyme; and
(b) setting the keratin fibers.

25. (NEW) The process of claim 24 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

26. (NEW) The process of claim 25 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

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27. (NEW) The process of claim 26 wherein the enzyme having transglutaminase activity comprises a calcium-independent transglutaminase.

28. (NEW) A multi-part kit for restructuring keratin fibers comprising
(a) a first composition comprising at least one enzyme having transglutaminase activity;
and
(b) a second composition having an active substance with substrate activity for the enzyme.

29. (NEW) The kit of claim 28 wherein the active substance having substrate activity comprises at least one protein or protein hydrolyzate of elastin, collagen, keratin, silk, soya, almond, pea, alga, potato, or wheat, or combinations thereof.

30. (NEW) The kit of claim 29 wherein the active substance comprises casein, soya protein or wheat protein, or combinations thereof.

31. (NEW) The kit of claim 30 wherein the enzyme having transglutaminase activity comprises a calcium-independent transglutaminase. --
